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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/088,724

DATE: 07/15/2002

TIME: 12:30:05

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF3\07152002\J088724.raw

3 <110> APPLICANT: Keio University
 5 <120> TITLE OF INVENTION: Humanin, a novel polypeptide that protects neuronal
 6 death
 8 <130> FILE REFERENCE: KUV-102DP1PCT1
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/088,724
 C--> 11 <141> CURRENT FILING DATE: 2002-06-10
 13 <150> PRIOR APPLICATION NUMBER: JP 1999-264679
 14 <151> PRIOR FILING DATE: 1999-09-17
 15 <150> PRIOR APPLICATION NUMBER: JP 2000-201456
 16 <151> PRIOR FILING DATE: 2000-06-29
 18 <160> NUMBER OF SEQ ID NOS: 60
 20 <170> SOFTWARE: PatentIn Ver. 2.0
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 85
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Artificial Sequence
 27 <220> FEATURE:
 28 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially
 29 synthesized sequence
 31 <400> SEQUENCE: 1
 32 aattcaccat ggctccacga gggttcagct gtctcttact tttaaccagt gaaattgacc 60
 33 tgcccgtaa gaggcgggca ggtac 85
 35 <210> SEQ ID NO: 2
 36 <211> LENGTH: 77
 37 <212> TYPE: DNA
 38 <213> ORGANISM: Artificial Sequence
 40 <220> FEATURE:
 41 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially
 42 synthesized sequence
 44 <400> SEQUENCE: 2
 45 ctgccccgcct cttcacgggc aggtcaattt cactggtaa aagtaagaga cagctgaacc 60
 46 ctcgtggagc catggtg 77
 48 <210> SEQ ID NO: 3
 49 <211> LENGTH: 79
 50 <212> TYPE: DNA
 51 <213> ORGANISM: Artificial Sequence
 53 <220> FEATURE:
 54 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially
 55 synthesized sequence
 57 <400> SEQUENCE: 3
 58 ctgccccgcct cttcacgggc aggtcaattt cactggtaa aagtaagaga cagctgaacc 60
 59 ctcgtggagc catgtggtg 79
 61 <210> SEQ ID NO: 4

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62 <211> LENGTH: 75
63 <212> TYPE: DNA
64 <213> ORGANISM: Homo sapiens
66 <220> FEATURE:
67 <221> NAME/KEY: CDS
68 <222> LOCATION: (1)..(72)
70 <400> SEQUENCE: 4 48
71 atg gct cca cga ggg ttc agc tgt ctc tta acc agt gaa att 48
72 Met Ala Pro Arg Gly Phe Ser Cys Leu Leu Leu Thr Ser Glu Ile
73 1 5 10 15
75 gac ctg ccc gtg aag agg cgg gca tga 75
76 Asp Leu Pro Val Lys Arg Arg Ala
77 20
79 <210> SEQ ID NO: 5
80 <211> LENGTH: 24
81 <212> TYPE: PRT
82 <213> ORGANISM: Homo sapiens
84 <400> SEQUENCE: 5
85 Met Ala Pro Arg Gly Phe Ser Cys Leu Leu Leu Leu Thr Ser Glu Ile
86 1 5 10 15
88 Asp Leu Pro Val Lys Arg Arg Ala
89 20
91 <210> SEQ ID NO: 6
92 <211> LENGTH: 34
93 <212> TYPE: PRT
94 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially
98 synthesized sequence (sHN-FLAG)
100 <400> SEQUENCE: 6
101 Met Ala Pro Arg Gly Phe Ser Cys Leu Leu Leu Leu Thr Ser Glu Ile
102 1 5 10 15
104 Asp Leu Pro Val Lys Arg Arg Ala Gly Thr Asp Tyr Lys Asp Asp Asp
105 20 25 30
107 Asp Lys
110 <210> SEQ ID NO: 7
111 <211> LENGTH: 24
112 <212> TYPE: PRT
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially
117 synthesized sequence (HNR)
119 <400> SEQUENCE: 7
120 Met Ala Pro Arg Gly Phe Ser Cys Arg Leu Leu Leu Thr Ser Glu Ile
121 1 5 10 15
123 Asp Leu Pro Val Lys Arg Arg Ala
124 20
126 <210> SEQ ID NO: 8
127 <211> LENGTH: 24

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128 <212> TYPE: PRT
129 <213> ORGANISM: Artificial Sequence
131 <220> FEATURE:
132 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially
133 synthesized sequence (HNG)
135 <400> SEQUENCE: 8
136 Met Ala Pro Arg Gly Phe Ser Cys Leu Leu Leu Leu Thr Gly Glu Ile
137 1 5 10 15
139 Asp Leu Pro Val Lys Arg Arg Ala
140 20
142 <210> SEQ ID NO: 9
143 <211> LENGTH: 24
144 <212> TYPE: PRT
145 <213> ORGANISM: Artificial Sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially
149 synthesized sequence (HNA)
151 <400> SEQUENCE: 9
152 Met Ala Pro Arg Gly Phe Ser Ala Leu Leu Leu Leu Thr Ser Glu Ile
153 1 5 10 15
155 Asp Leu Pro Val Lys Arg Arg Ala
156 20
158 <210> SEQ ID NO: 10
159 <211> LENGTH: 24
160 <212> TYPE: PRT
161 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially
165 synthesized sequence
167 <400> SEQUENCE: 10
168 Met Ala Pro Arg Gly Phe Ser Cys Leu Leu Leu Leu Thr Ser Glu Ile
169 1 5 10 15
171 Asp Leu Pro Val Ala Ala Ala Ala
172 20
174 <210> SEQ ID NO: 11
175 <211> LENGTH: 19
176 <212> TYPE: DNA
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially
181 synthesized sequence
183 <400> SEQUENCE: 11
184 gggtgttag cttgaacgc 19
186 <210> SEQ ID NO: 12
187 <211> LENGTH: 23
188 <212> TYPE: PRT
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially

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193 synthesized sequence (deltaN1-Humanin)
195 <400> SEQUENCE: 12
196 Ala Pro Arg Gly Phe Ser Cys Leu Leu Leu Leu Thr Ser Glu Ile Asp
197 1 5 10 15
199 Leu Pro Val Lys Arg Arg Ala
200 20
202 <210> SEQ ID NO: 13
203 <211> LENGTH: 22
204 <212> TYPE: PRT
205 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
208 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially
209 synthesized sequence (deltaN2-Humanin)
211 <400> SEQUENCE: 13
212 Pro Arg Gly Phe Ser Cys Leu Leu Leu Leu Thr Ser Glu Ile Asp Leu
213 1 5 10 15
215 Pro Val Lys Arg Arg Ala
216 20
218 <210> SEQ ID NO: 14
219 <211> LENGTH: 21
220 <212> TYPE: PRT
221 <213> ORGANISM: Artificial Sequence
223 <220> FEATURE:
224 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially
225 synthesized sequence (deltaN3-Humanin)
227 <400> SEQUENCE: 14
228 Arg Gly Phe Ser Cys Leu Leu Leu Leu Thr Ser Glu Ile Asp Leu Pro
229 1 5 10 15
231 Val Lys Arg Arg Ala
232 20
234 <210> SEQ ID NO: 15
235 <211> LENGTH: 20
236 <212> TYPE: PRT
237 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
240 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially
241 synthesized sequence (deltaN4-Humanin)
243 <400> SEQUENCE: 15
244 Gly Phe Ser Cys Leu Leu Leu Leu Thr Ser Glu Ile Asp Leu Pro Val
245 1 5 10 15
247 Lys Arg Arg Ala
248 20
250 <210> SEQ ID NO: 16
251 <211> LENGTH: 19
252 <212> TYPE: PRT
253 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially
257 synthesized sequence (deltaN5-Humanin)

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259 <400> SEQUENCE: 16
260 Phe Ser Cys Leu Leu Leu Leu Thr Ser Glu Ile Asp Leu Pro Val Lys
261 1 5 10 15
263 Arg Arg Ala
266 <210> SEQ ID NO: 17
267 <211> LENGTH: 18
268 <212> TYPE: PRT
269 <213> ORGANISM: Artificial Sequence
271 <220> FEATURE:
272 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially
273 synthesized sequence (deltaN6-Humanin)
275 <400> SEQUENCE: 17
276 Ser Cys Leu Leu Leu Leu Thr Ser Glu Ile Asp Leu Pro Val Lys Arg
277 1 5 10 15
279 Arg Ala
282 <210> SEQ ID NO: 18
283 <211> LENGTH: 17
284 <212> TYPE: PRT
285 <213> ORGANISM: Artificial Sequence
287 <220> FEATURE:
288 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially
289 synthesized sequence (deltaN7-Humanin)
291 <400> SEQUENCE: 18
292 Cys Leu Leu Leu Leu Thr Ser Glu Ile Asp Leu Pro Val Lys Arg Arg
293 1 5 10 15
295 Ala
298 <210> SEQ ID NO: 19
299 <211> LENGTH: 16
300 <212> TYPE: PRT
301 <213> ORGANISM: Artificial Sequence
303 <220> FEATURE:
304 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially
305 synthesized sequence (deltaN8-Humanin)
307 <400> SEQUENCE: 19
308 Leu Leu Leu Leu Thr Ser Glu Ile Asp Leu Pro Val Lys Arg Arg Ala
309 1 5 10 15
311 <210> SEQ ID NO: 20
312 <211> LENGTH: 16
313 <212> TYPE: PRT
314 <213> ORGANISM: Artificial Sequence
316 <220> FEATURE:
317 <223> OTHER INFORMATION: Description of Artificial Sequence: artificially
318 synthesized sequence (deltaN2 deltaC6-Humanin)
320 <400> SEQUENCE: 20
321 Pro Arg Gly Phe Ser Cys Leu Leu Leu Leu Thr Ser Glu Ile Asp Leu
322 1 5 10 15
324 <210> SEQ ID NO: 21
325 <211> LENGTH: 17
326 <212> TYPE: PRT

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/088,724

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Input Set : A:\Sequence Listing.txt

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L:10 M:270 C: Current Application Number differs, Replaced Application Number

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date